2. OPERATIONAL DESCRIPTION

The **Online Processing** function in NPDMS consists of eight major components. Each component performs separate processing functions. Processing functions within the system include Queries, Reports, Tables, Case Review, Transactions, Inventory, Retransmit to GSA, and Browse Case processing.

The Queries component provides the NPDMS user with direct access to both active and historical property disposal data using Software AG's SUPER NATURAL. This data includes both case and disposition transaction data. The system provides standard queries as well as ad hoc queries. The standard queries, created by the Development Team, are stored in a public library under Super Natural.

The Reports component provides users the capability to select standard batch reports for managing the property disposal function. These reports are categorized into several types of standard reports, which include: General Services Administration (GSA) Reporting, Defense Reutilization and Marketing Office (DRMO) Transfer Forms, NASA Equipment Management System (NEMS) Interface Reports, NASA Forms, NASA Supply Management System (NSMS) Interface Reports, other statistical NPDMS Reporting, Sales Reporting, and Inventory Process Reporting.

The Tables component provides the capability to access user tables files for updating. This process provides the capability to add, change, and delete entries maintained in the NPDMS tables. The tables are used for edit, validation, and/or access control during system processing.

The Case Review component provides a detailed online display of the case record with its associated freeze information for a single item. This process provides the capability to browse component systems and single item case data through the Main Menu or transaction processing screens via Property Case Number.

The Transactions component provides the capability to add, change, and delete case and item information for all active disposal cases. Cases processed include the following: controlled, non-controlled, and component system. The controlled equipment data entered through the Add/Change process directly updates the NEMS Data Base to reflect the addition of the Property Case Number, the transfer of accountability to the Property Disposal Officer (PDO), the adjustment of Acquisition Cost, and extracts common data elements to reduce data entry. The Add/Change process also accesses NEMS to validate and verify the entry of common table maintained elements (i.e., Manufacturers Code, Building Number, Custodian Account Number).

The Transaction component also provides for the activities surrounding the entering/deletion/modification of freeze transactions, receipt transactions, final disposition transactions, converting single case to a component system item, converting component system item to a single case, sales, and any corrections to them.

The Inventory component provides the capability to enter inventory information to satisfy inventory reporting needs. The Inventory process updates the NPDMS Case File with the Pre-Inventory Date on the day that the physical inventory process is initiated, allowing the

user to enter results of the physical inventory records. Discrepancies are reconciled and the data base is updated accordingly.

The Retransmit to GSA component provides the capability to re-submit property cases that were rejected by GSA. After the user makes corrections through the Change process, the property cases can be re-submitted. This process resets flags on the Case and Transaction File so that the property cases are selected for retransmission to GSA.

The Browse Case component provides an online list of a cases either by the Equipment Control Number (ECN) or Document Control Number (DCN). This process provides the capability to list cases for the active file, as well as historical case file.

The **Batch Processing** function provides for regular processing that is required by NPDMS to support the property disposal and utilization function effectively and accurately. As with any system, NPDMS has certain batch processes that need to take place cyclically and as requested. The Batch process consists of three distinct subsystems: the NSMS Batch Interface, Report Processing, and Internal Processing. Each subsystem is initiated by the Processing Driver during the nightly batch run.

The NSMS Batch Interface processes materials inventory items from NSMS, which are provided on the NPDMS/NSMS Interface File and are scheduled as part of the internal batch system processing.

The Report Processing Subsystem provides for the generation of standard reports based upon selection and scheduling from the online Report Subsystem.

The Internal Processing Subsystem provides the capability for several types of regular maintenance jobs that are performed as part of the daily clean-up routine.

2.1 SYSTEM HIERARCHY

Figure 2.1, System Hierarchical Charts, provides an overview of the system processing. Details of these processes are outlined on the pages following the System Hierarchical Charts.

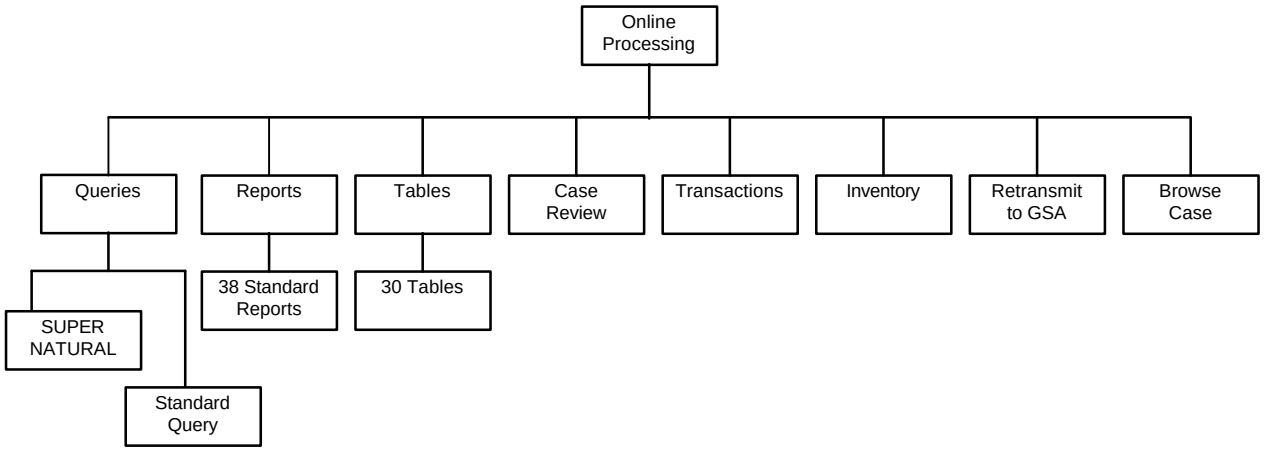


Figure 2.1-1 System Hierarchical Chart

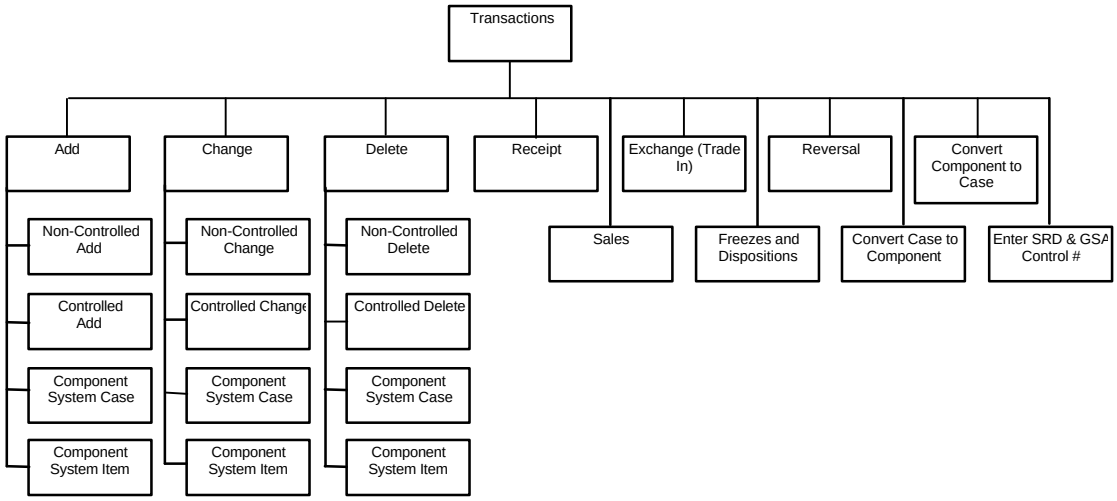


Figure 2.1-1 System Hierarchical Chart (Continued)

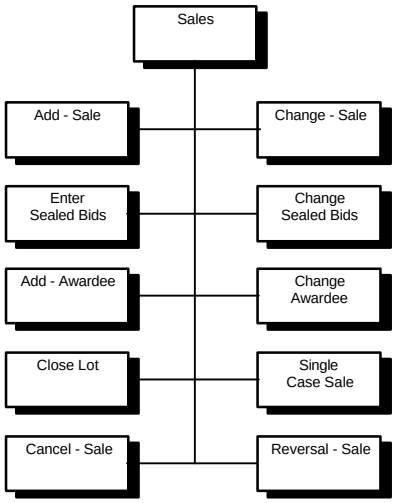


Figure 2.1-1 System Hierarchical Chart (Continued)

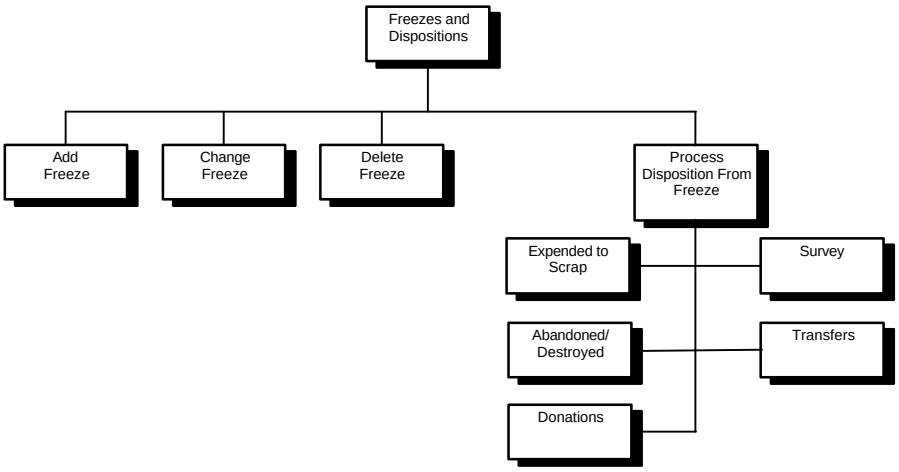


Figure 2.1-1 System Hierarchical Chart (Continued)

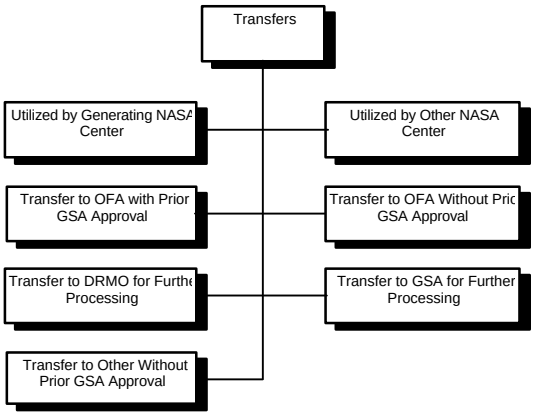


Figure 2.1-1 System Hierarchical Chart (Continued)

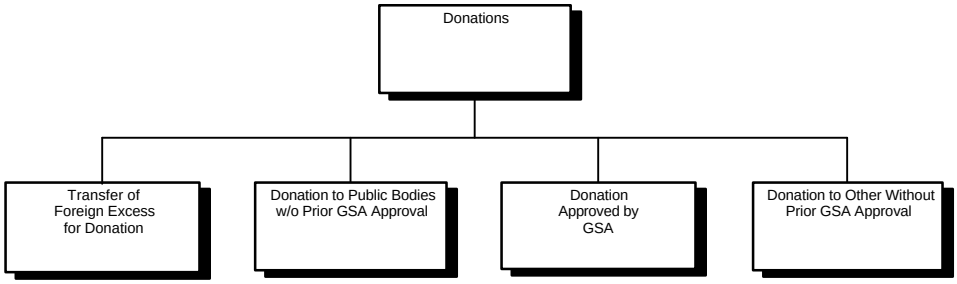


Figure 2.1-1 System Hierarchical Chart (Continued)

The following reflects the NPDMS System Hierarchical Detail:

- Online Processing
    - Queries
    - Reports
    - Tables
    - Case Review
    - Transactions
        - Add
        - Change

- Delete
- Receipt
- Sales
    - Add Sale
    - Change Sale
    - Enter Sealed Bids
    - Change Sealed Bids
    - Add Awardee
    - Change Awardee
    - Close Lot
    - Single Case Sale
    - Cancel Sale
    - Reversal Sale
- Exchange (Trade-In) (T19)
- Freezes and Dispositions
    - Add Freeze
    - Change Freeze
    - Delete Freeze
    - Process Disposition From Existing Freeze
        - Expended to Scrap (T03)
        - Survey Lost Personal Property (T04)
        - Abandoned/Destroyed Property (T18)
        - Transfers
        - Utilized by Generating NASA Center (T05)
        - Utilized by Other NASA Center (T06)

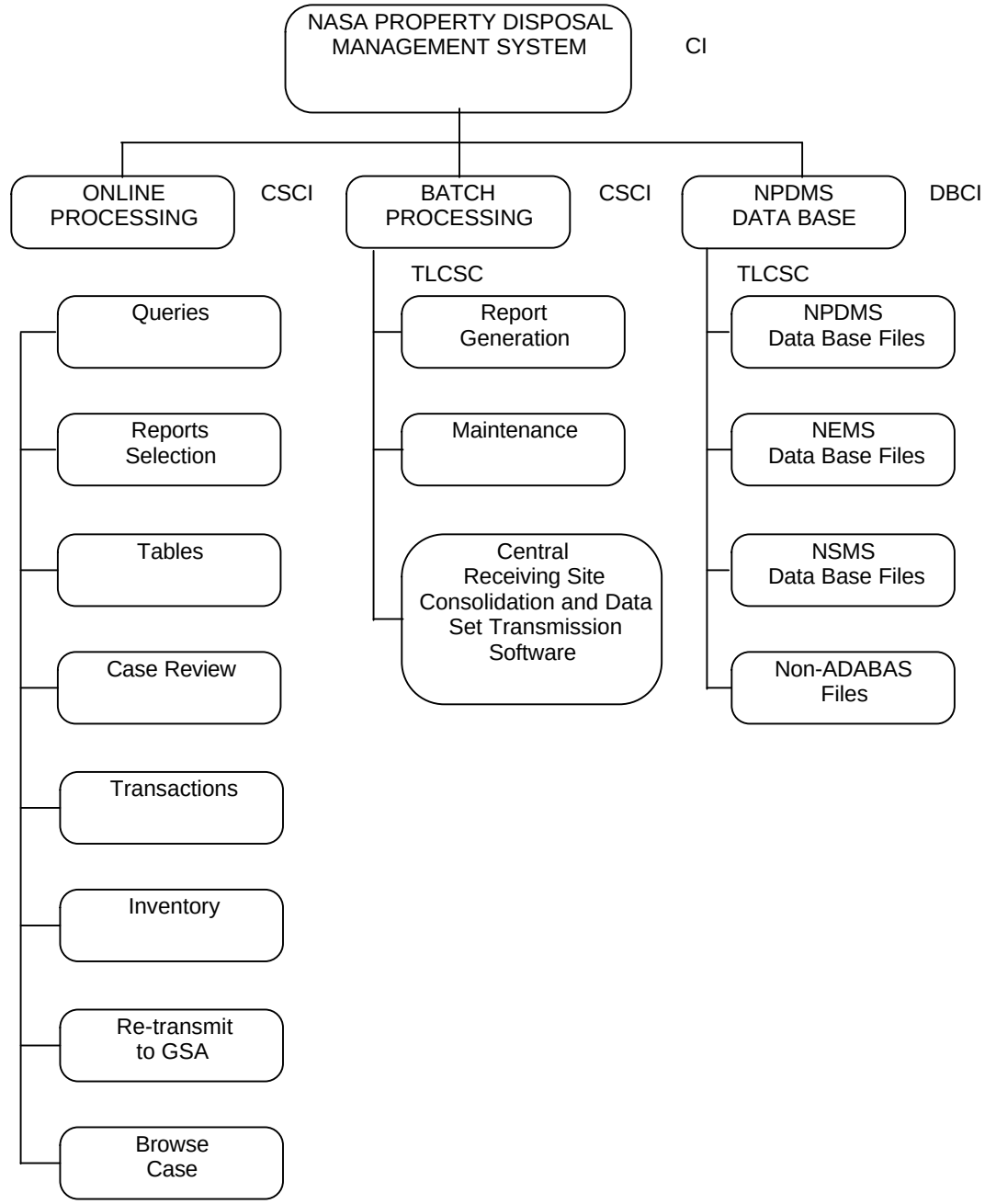
- Transfer to Other Federal Agency (OFA) with Prior GSA Approval (T07)
- Transfer to OFA w/o Prior GSA Approval (T08)
- Transfer to DRMO for Further Processing (T09)
- Transfer to GSA for Further Processing (T12)
- Transfer to Other w/o Prior GSA Approval (T16)
- Donations
- Transfer of Foreign Excess for Donation (T10)
- Donation to Public Bodies w/o Prior GSA Approval (T11)
- Donation Approved by GSA (T13)
- Donation to Other w/o Prior GSA Approval (T20)

- Reversal Processing
  - Disposition Reversal
  - Receipt Reversal (RT02)
- Convert Single Case to Component
- Convert Component to Single Case
- Enter Surplus Release Date (SRD) and GSA Control Number

- Inventory
- Re-transmit to GSA
- Browse Case

- Batch Processing
  - NSMS Add Process
  - Report Generation
  - Maintenance Process

2.2 CONFIGURATION HIERARCHY



Configuration Item (CI)
Data Base Configuration Item (DBCI)
Computer Software Configuration Items (CSCI)
Top Level Computer Software Components (TLCSC)

Figure 2.2 NPDMS Configuration